INVENTIVE TECHNOLOGICAL REVOLUTION AMONG URBAN PLANNING STUDENTS

RIDHAN PRASETYO

ABSTRACT

CAD Engineers and Urban Planning specialists constructed projects utilising manual drawing approaches to design a project at various scales before the most recent use of new technology. The utilisation of CAD, GIS, and various applications linked to 3D Design and Modelling has been implemented at USM as a teaching innovation adapt to changing times and technological revolutions, which help students better comprehend and analyse spatial data as well as create and visualise urban ideas and plans more quickly and efficiently.

In addition to the technology-based learning system at USM, Studio 300 also uses project- or assignment-based learning by introducing them to a more comprehensive and integrated learning system. Students are required to perform field surveys, analyse data, create urban planning designs. This can help students comprehend and cope with real-world issues as well as their collaboration and communication abilities.

Teaching innovation can also be carried out by introducing case studies and direct experience from practitioners and experts to have a clearer picture of the challenges and opportunities in the field of urban planning. Students can attend seminars, panel discussions, or visits to relevant places.

In conclusion, the revolution in learning and teaching urban planning students related to the latest technology is important in producing graduates who are competent and ready to face increasingly complex urban planning challenges, so that they can learn effectively about how the latest technology can assist in implementing projects related to sustainable urban planning.

the objectives

- Aim to create proficient graduates who can tackle intricate urban planning challenges with the latest technology and sustainable practices.
- Implement tech-based learning that blends project-based learning, case studies, and hands-on experience from urban planning experts at USM.

the commercial possibility

It is difficult to determine a specific commercial possibility from the given text as it mainly focuses on the teaching and learning of urban planning utilizing new technology and innovative methods. However, it can be inferred that there may be potential commercial opportunities in the development and sale of software applications, tools, and technologies related to CAD, GIS, and 3D design and modeling that can assist in urban planning. Additionally, there may be opportunities to provide training and consulting services to individuals and organizations involved in urban planning to improve their proficiency in using new technologies and methods.

the usability

- Aims to enhance student's comprehension and a of spatial data.
- Facilitates efficient creation and visualization of ideas and plans.
- Helps address complex urban planning challenge
- Highlights tool usability in real-world situations.
- Provides practical experience for students.
- Aids in the development of collaboration communication skills.

the values

Innovation. The text highlights the importance of innovation in teaching and learning urban planning to adapt to changing times and technological revolutions. The integration of new technology, project-based learning, and direct experience from practitioners and experts is emphasized to produce competent graduates who can effectively address complex urban planning challenges.